

# RF Test Data for Bluetooth LE (Conducted Measurements)

General Description of EUT	
Product Name:	StiX
Test Model:	5700
Sample ID:	20211022-08_1-01
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	45%
Test Voltage:	AC 120V
Test Engineer:	HUANGJIANPING
Note: For a more detailed features description, please refer to the report TB-FCC184367	

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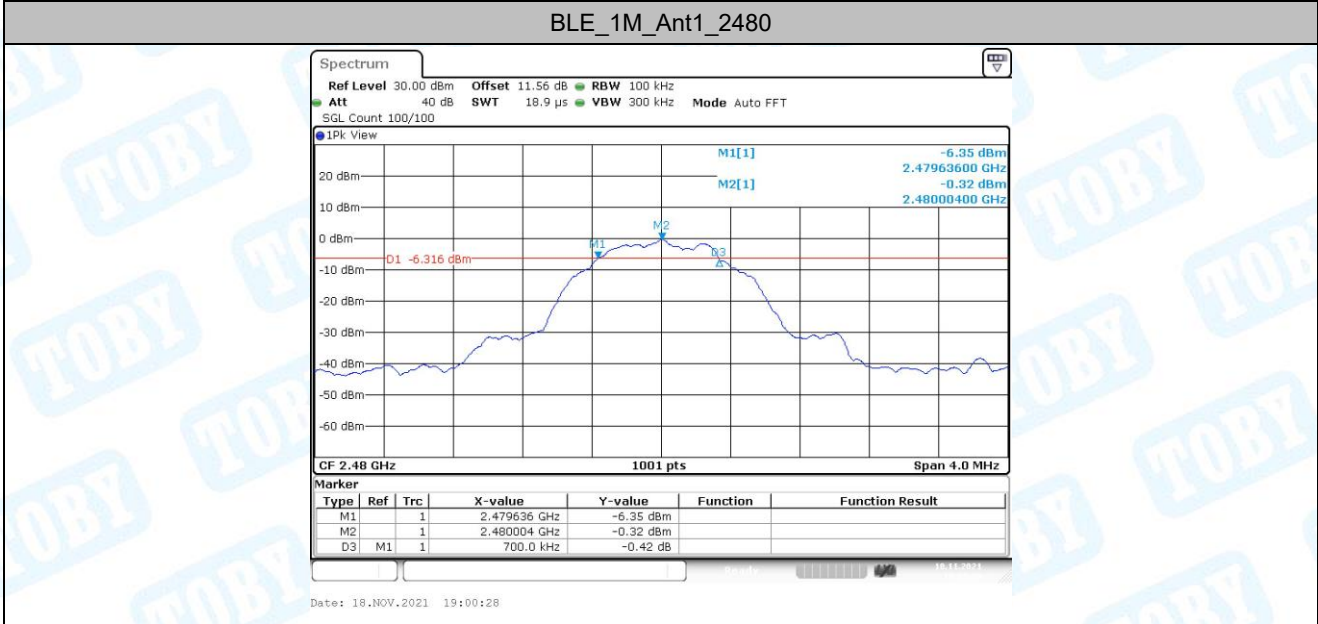
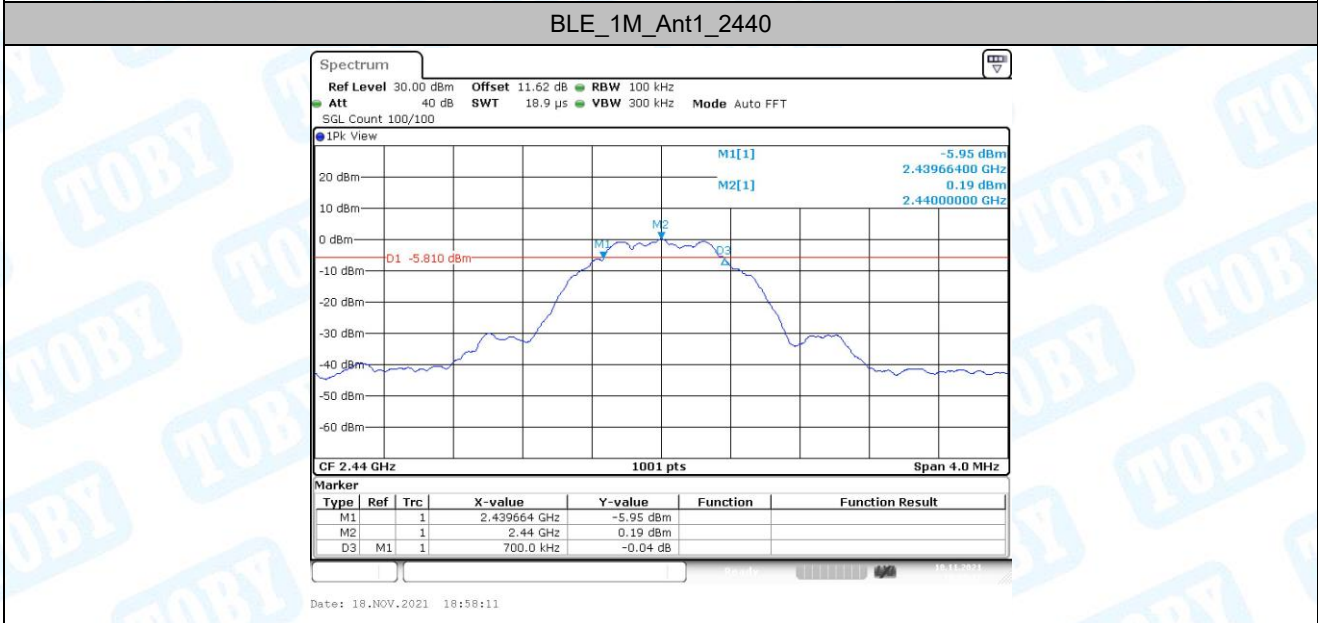
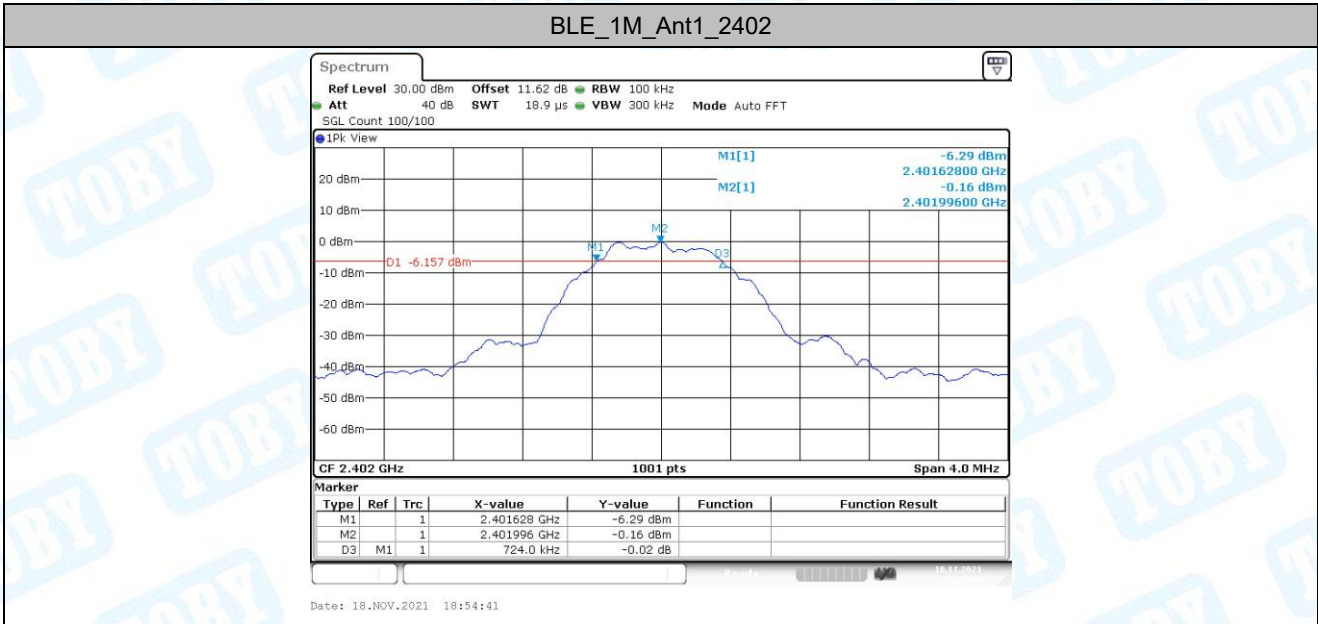


## 1. DTS Bandwidth

### 1.1. Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.724	2401.628	2402.352	0.5	PASS
		2440	0.700	2439.664	2440.364	0.5	PASS
		2480	0.700	2479.636	2480.336	0.5	PASS

## 1.2. Test Graphs



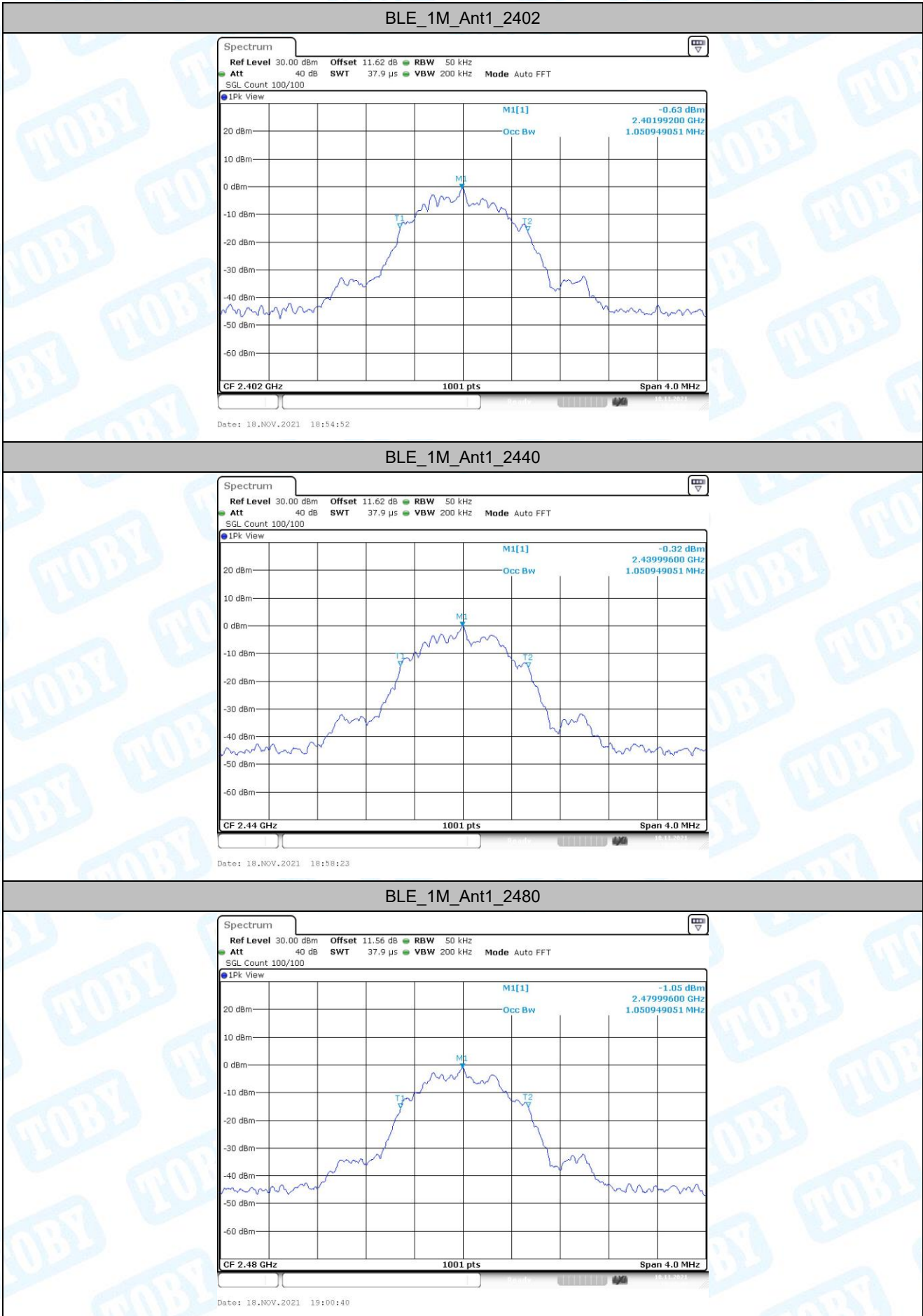


## 2. Occupied Channel Bandwidth

### 2.1. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.051	2401.481	2402.531	---	PASS
		2440	1.051	2439.485	2440.535	---	PASS
		2480	1.051	2479.485	2480.535	---	PASS

## 2.2. Test Graphs



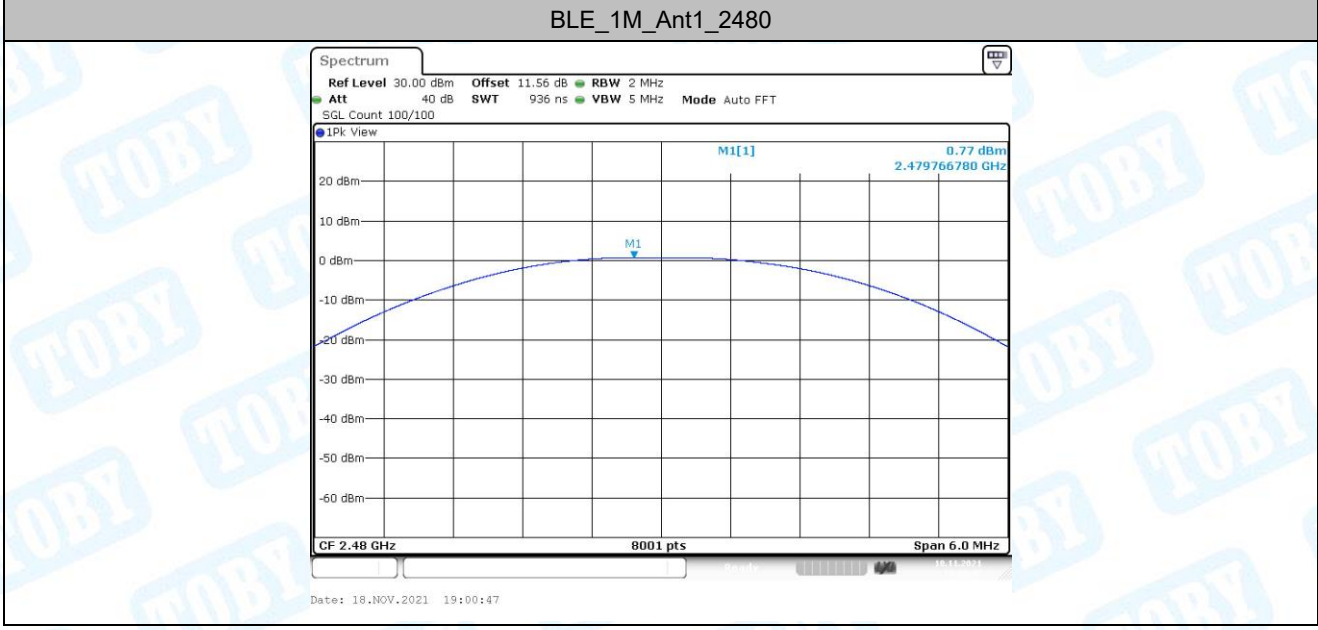
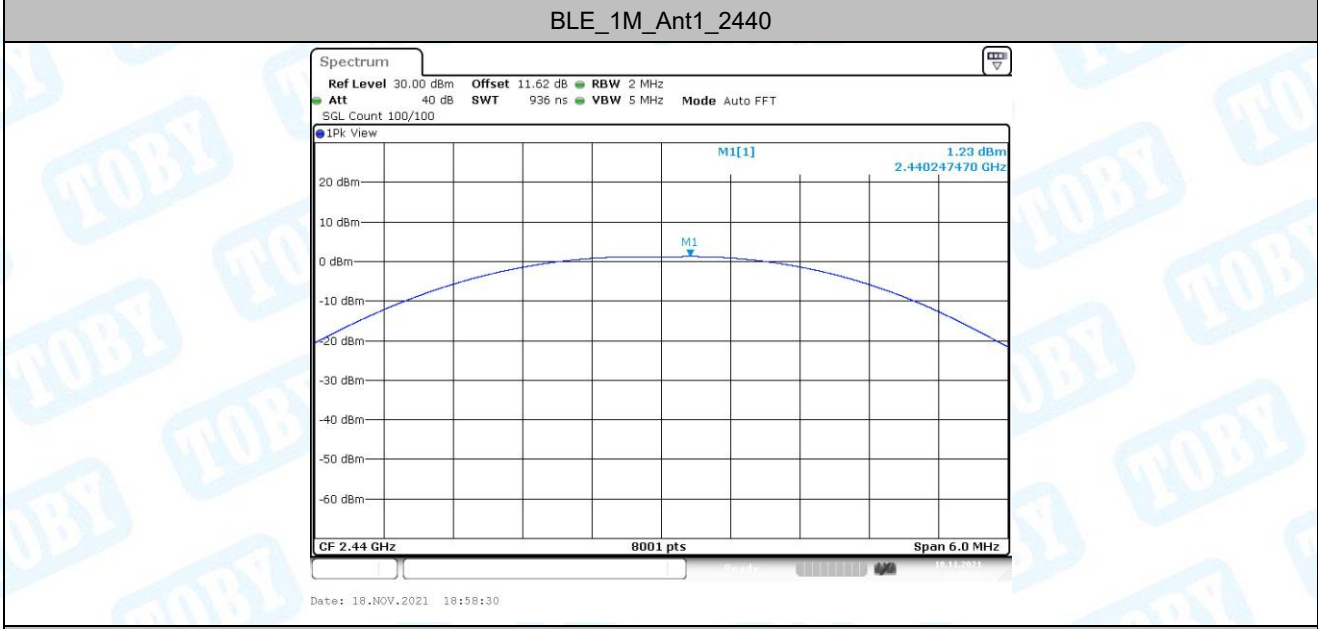
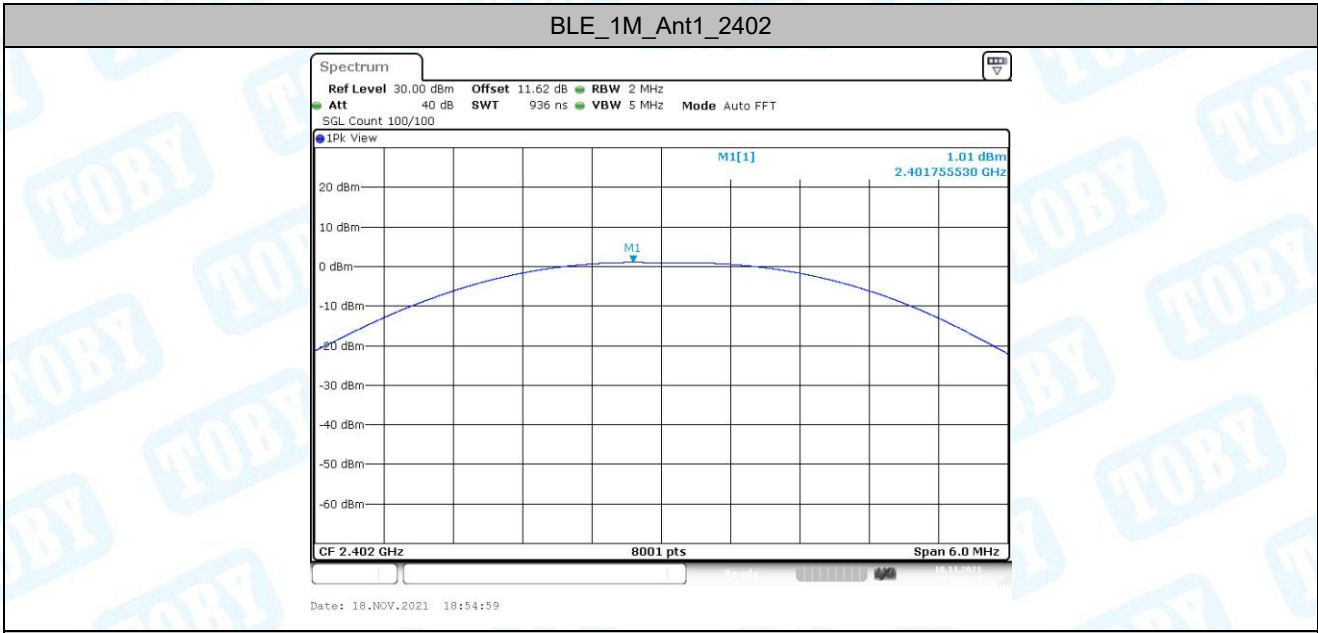


### 3. Maximum conducted output power

#### 3.1. Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.01	≤30	PASS
		2440	1.23	≤30	PASS
		2480	0.77	≤30	PASS

### 3.2. Test Graphs



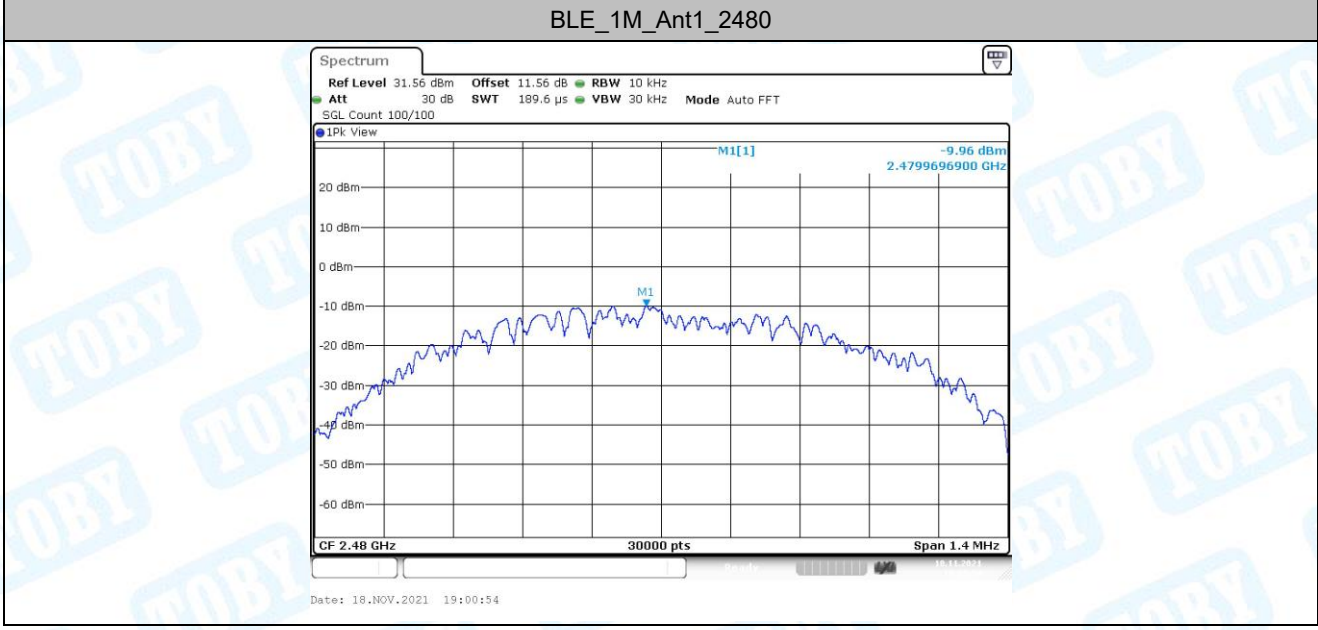
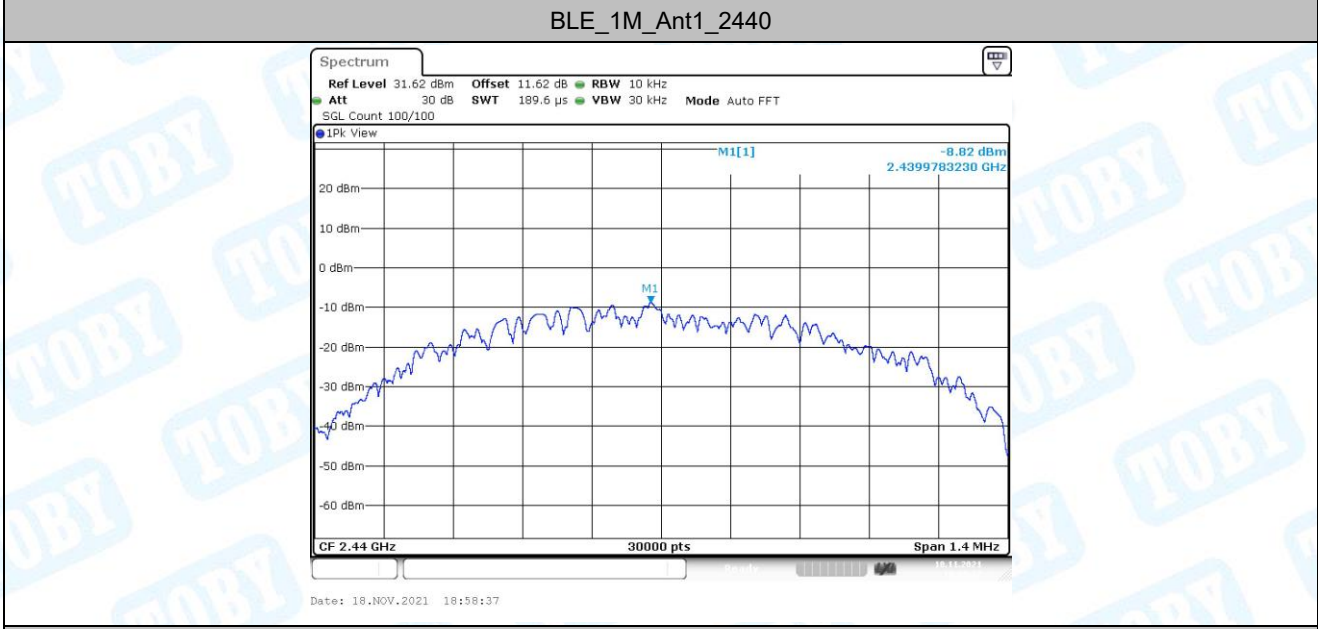
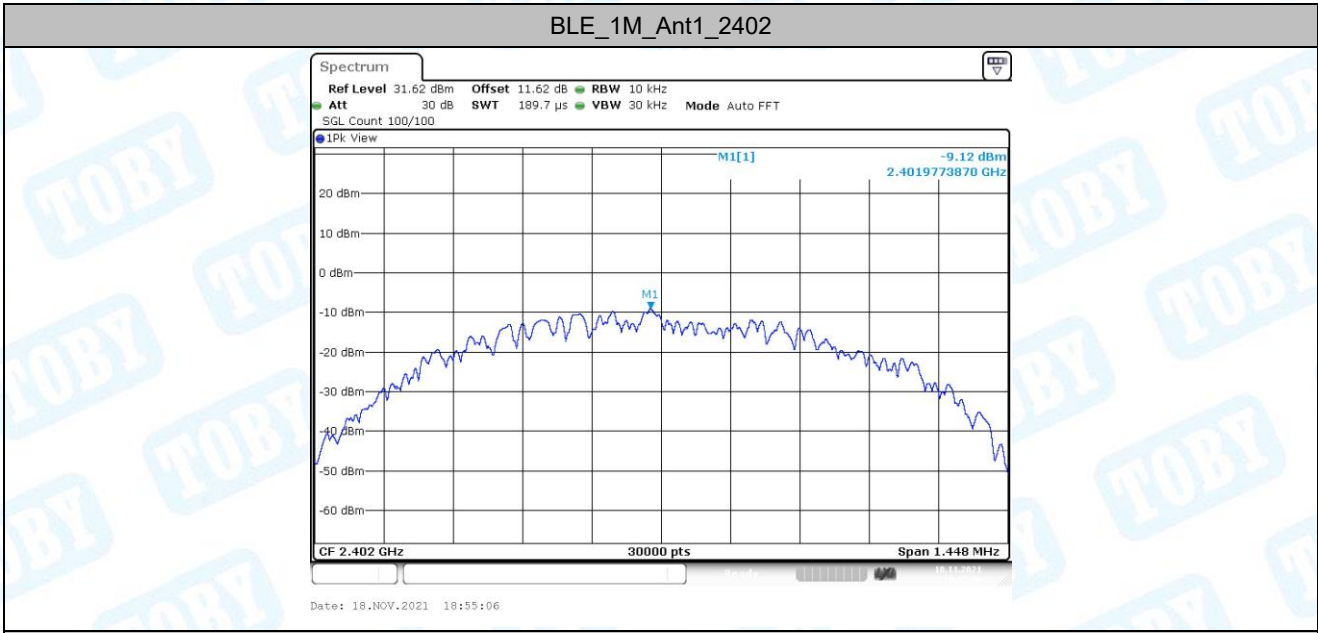


## 4. Maximum power spectral density

### 4.1. Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.12	≤8	PASS
		2440	-8.82	≤8	PASS
		2480	-9.96	≤8	PASS

## 4.2. Test Graphs



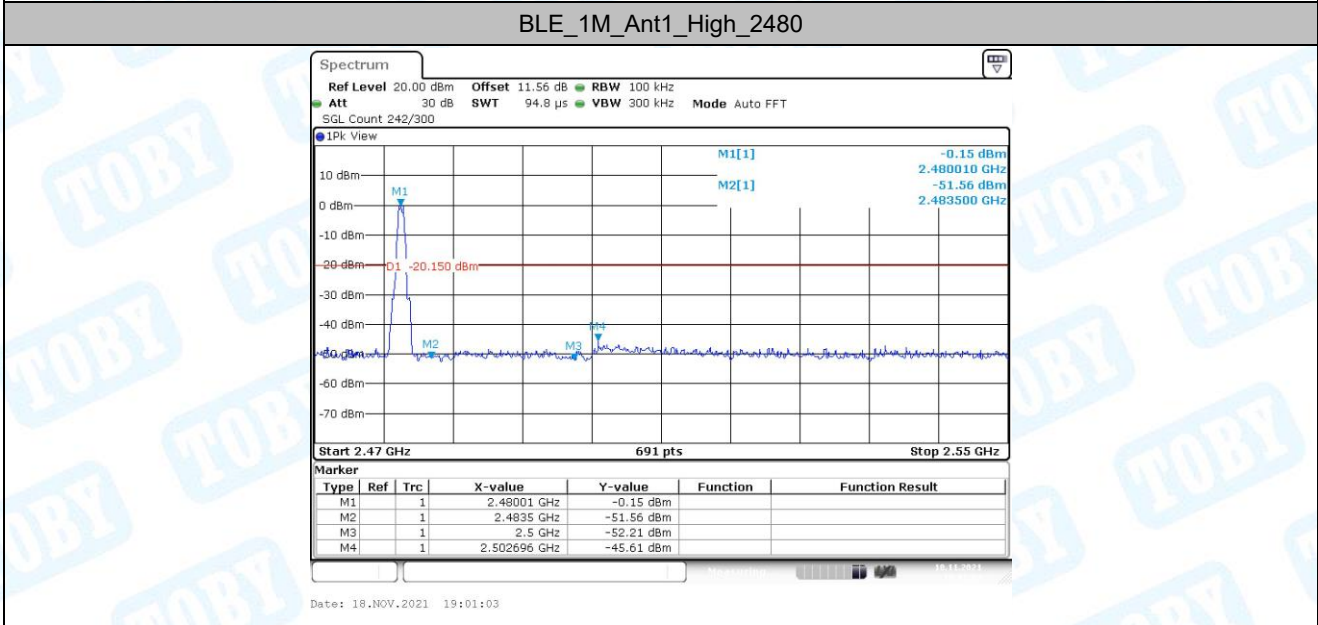
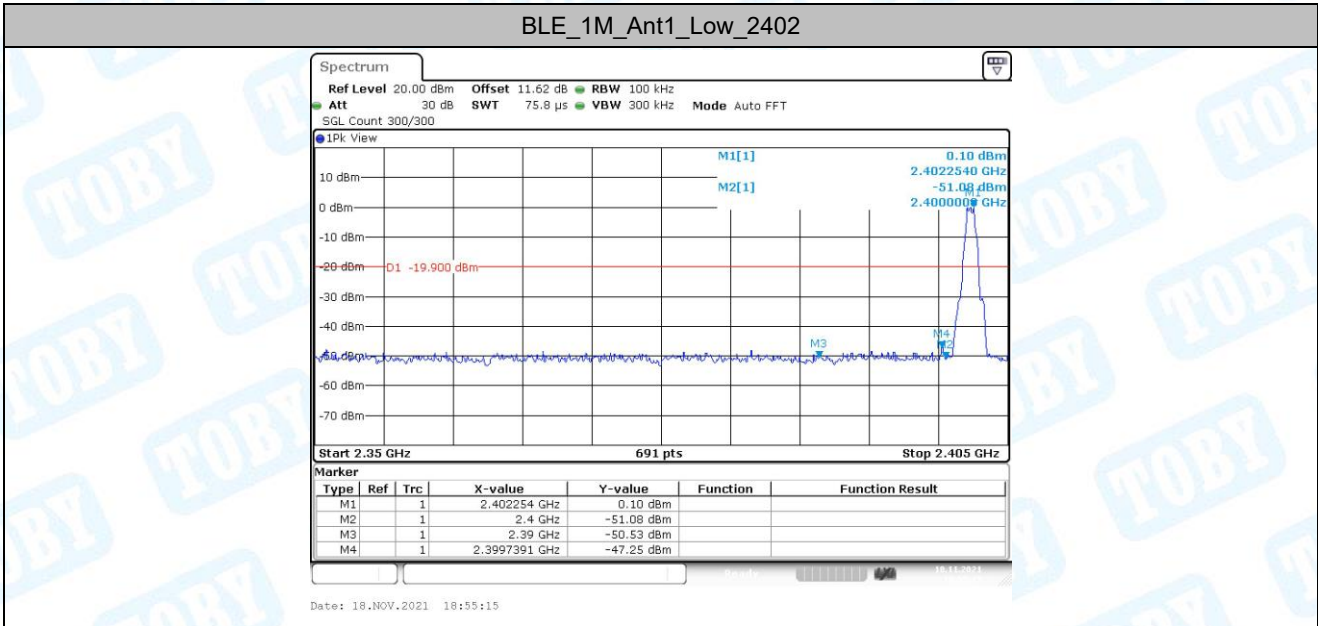


## 5. Band edge measurements

### 5.1. Test Result

Test Mode	Antenna	ChName	Channel	Ref.Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.10	-47.25	≤-19.9	PASS
		High	2480	-0.15	-45.61	≤-20.15	PASS

### 5.2. Test Graphs



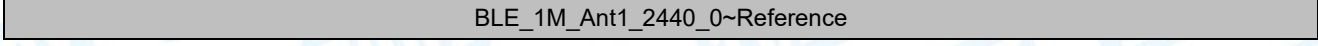
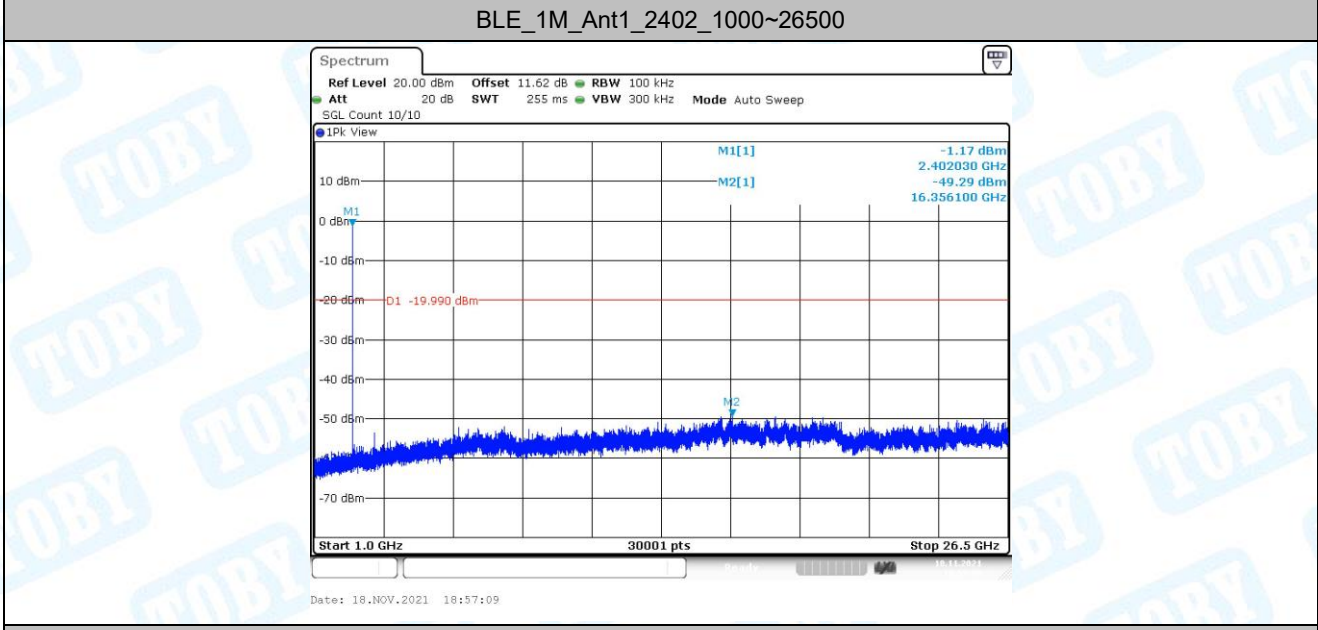
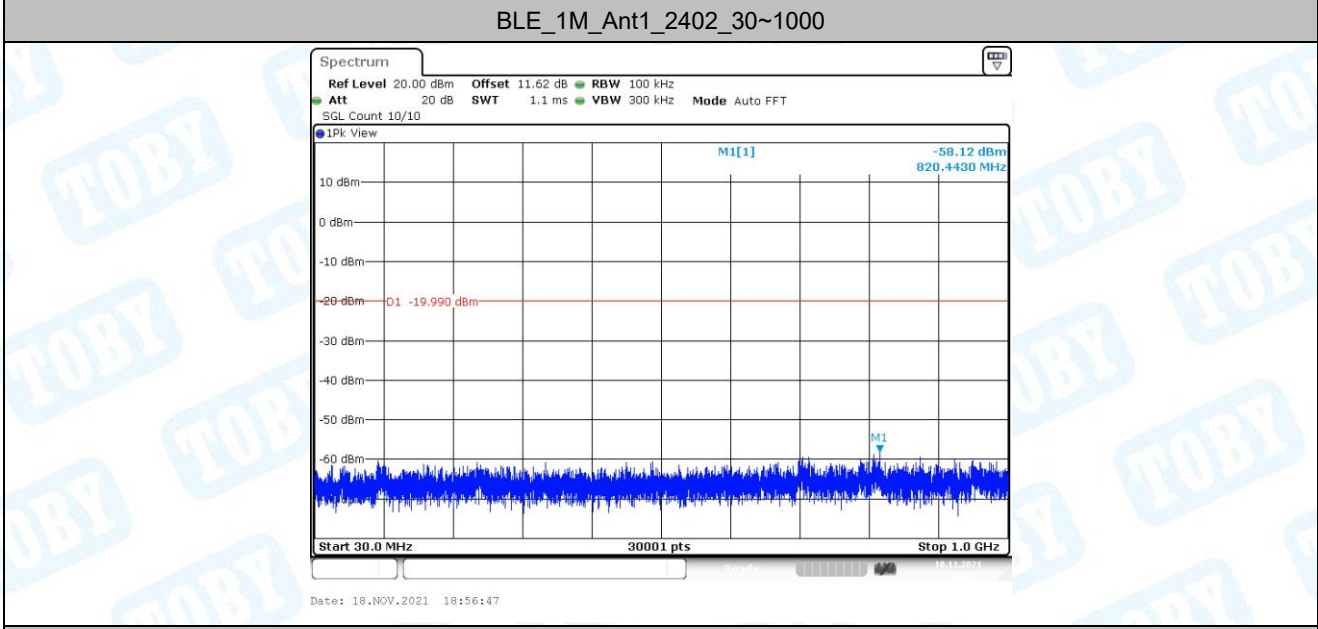
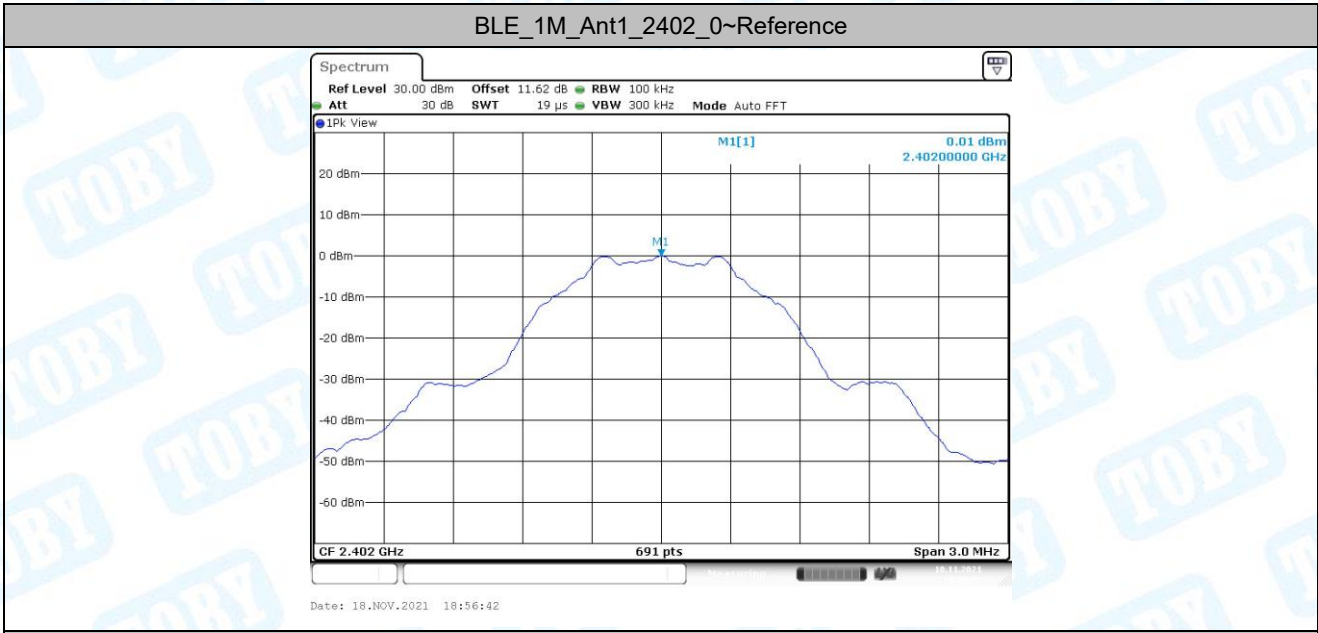


## 6. Conducted Spurious Emission

### 6.1. Test Result

Test Mode	Antenna	Channel	Freq. Range [MHz]	Ref. Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.01	0.01	---	PASS
			30~1000	0.01	-58.12	≤-19.99	PASS
			1000~26500	0.01	-49.29	≤-19.99	PASS
		2440	Reference	0.24	0.24	---	PASS
			30~1000	0.24	-58.21	≤-19.76	PASS
			1000~26500	0.24	-49.19	≤-19.76	PASS
		2480	Reference	-0.22	-0.22	---	PASS
			30~1000	-0.22	-59.1	≤-20.22	PASS
			1000~26500	-0.22	-49.25	≤-20.22	PASS

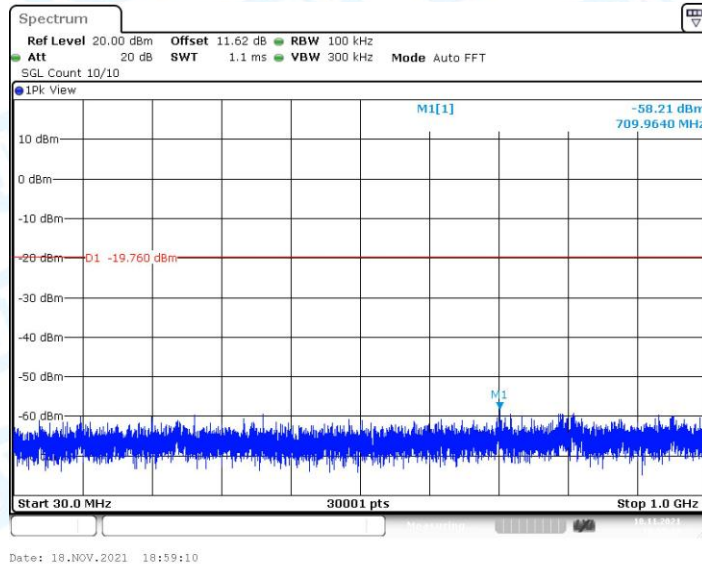
### 6.2. Test Graphs



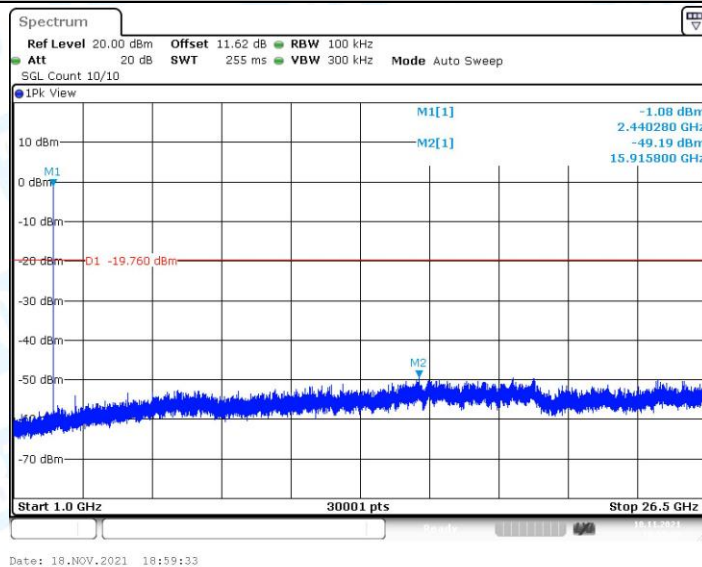




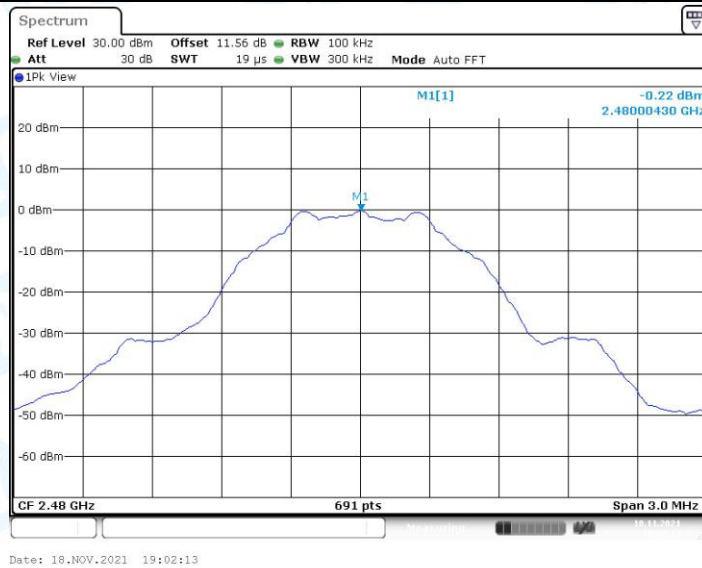
BLE\_1M\_Ant1\_2440\_30~1000



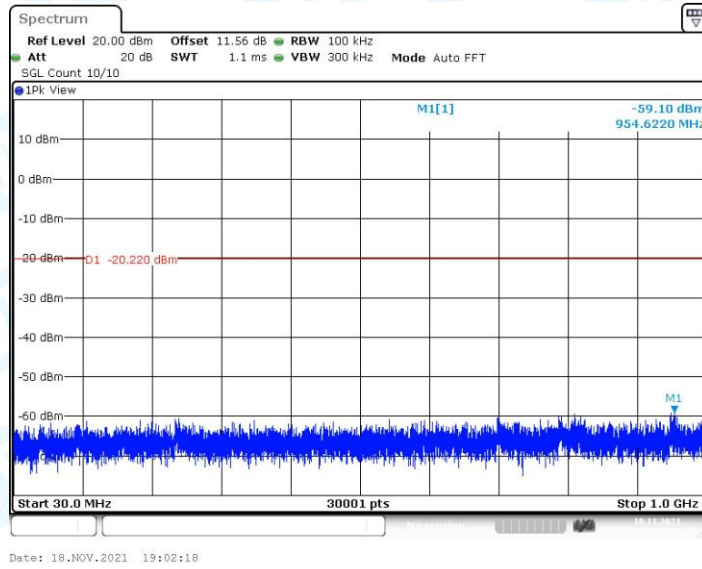
BLE\_1M\_Ant1\_2440\_1000~26500



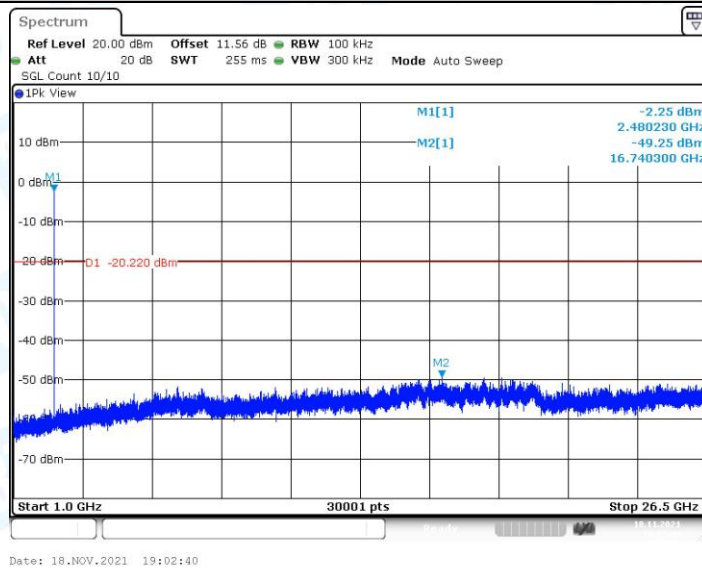
BLE\_1M\_Ant1\_2480\_0~Reference



### BLE\_1M\_Ant1\_2480\_30~1000



### BLE\_1M\_Ant1\_2480\_1000~26500



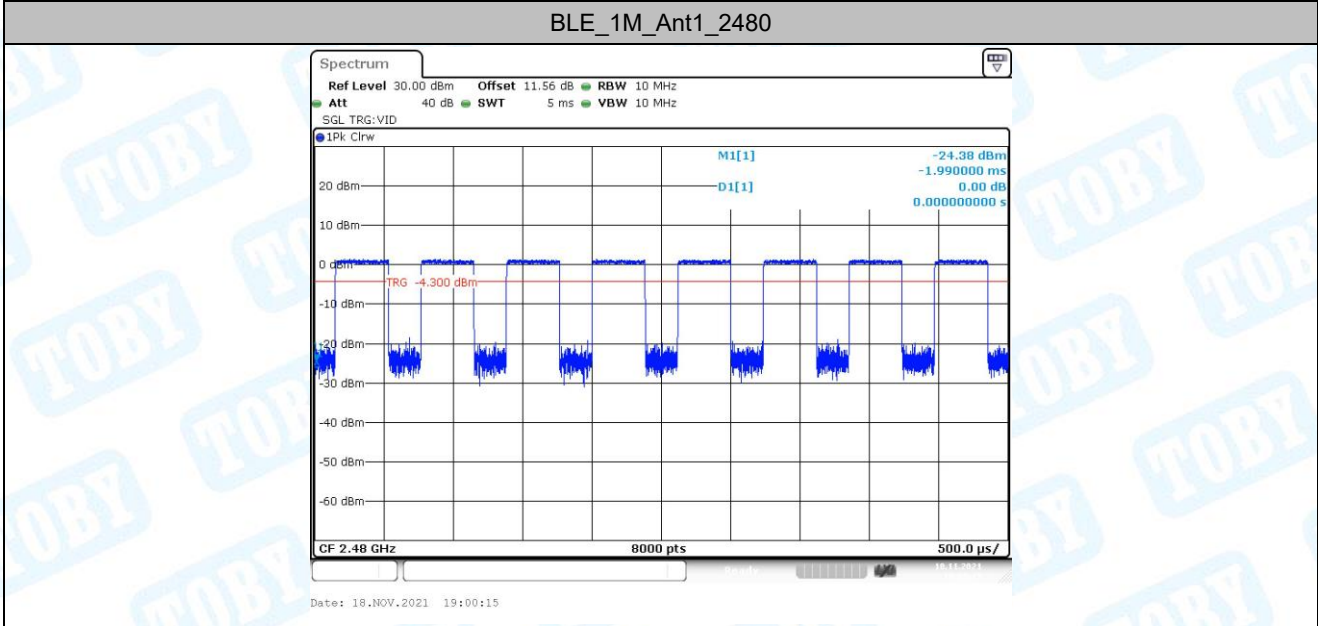
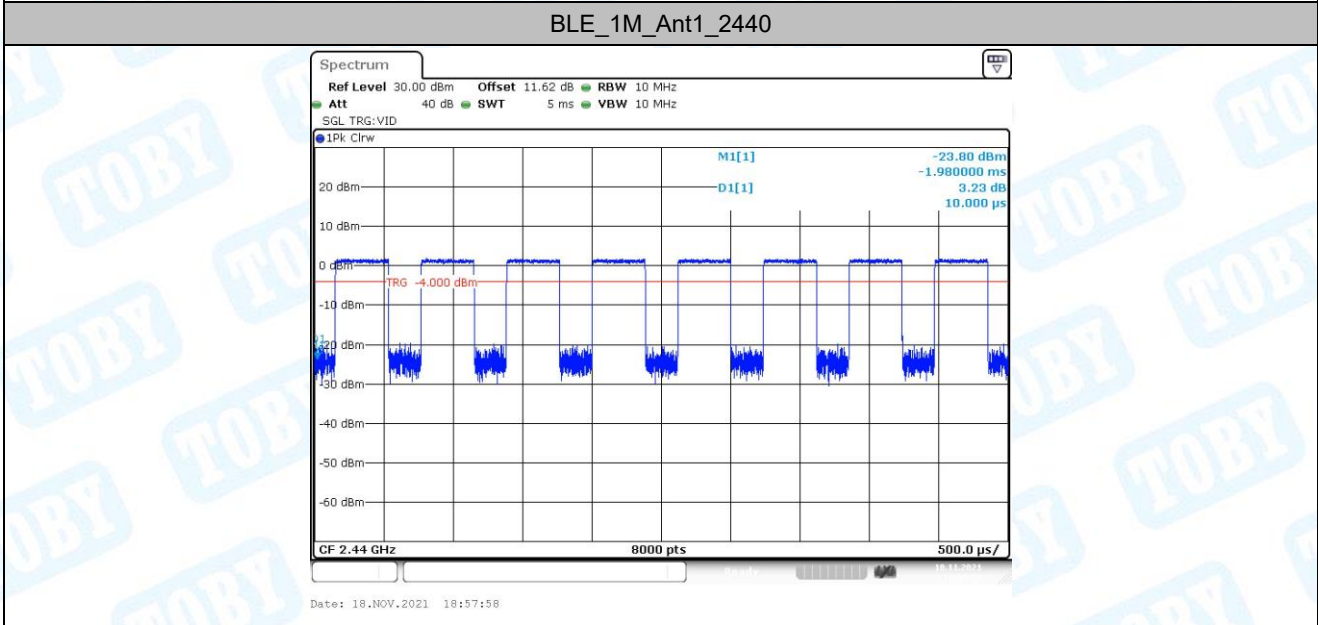
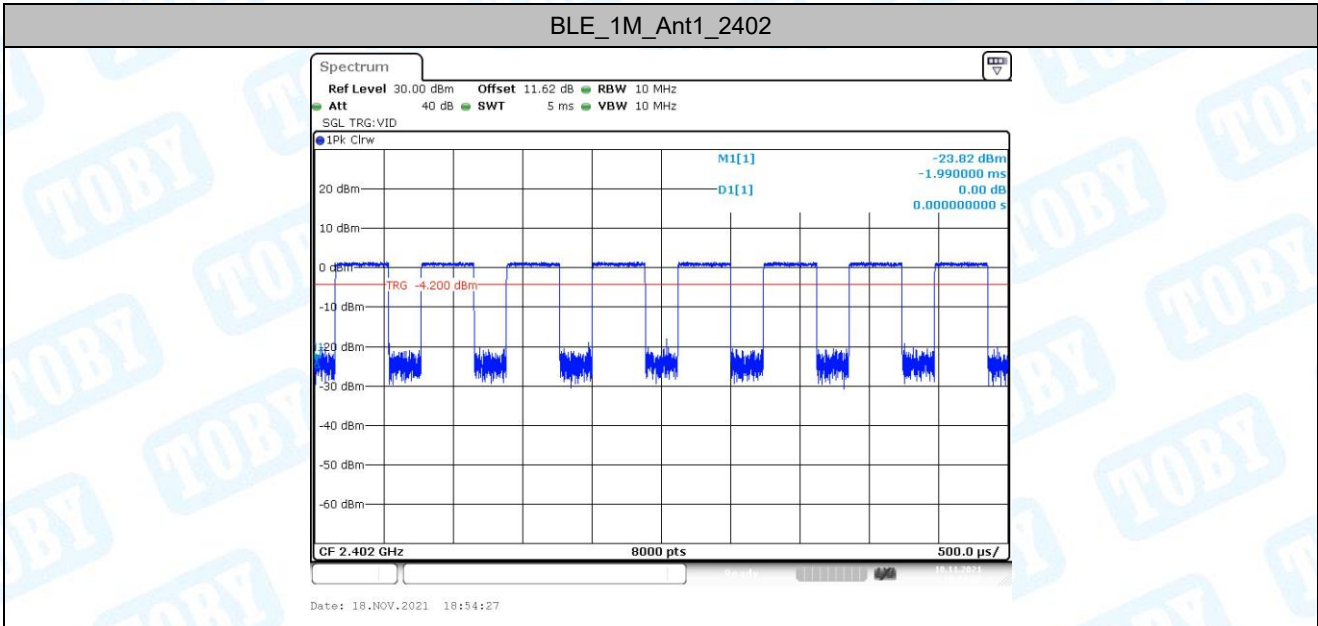


## 7. Duty Cycle

### 7.1. Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE_1M	Ant1	2402	0.00	0.00	100	---	PASS
		2440	0.00	0.01	100	---	PASS
		2480	0.00	0.00	100	---	PASS

### 7.2. Test Graphs





## 8. Emissions in Restricted Bands

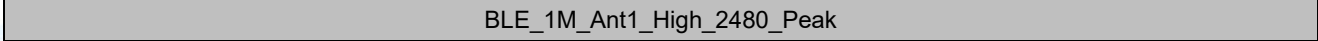
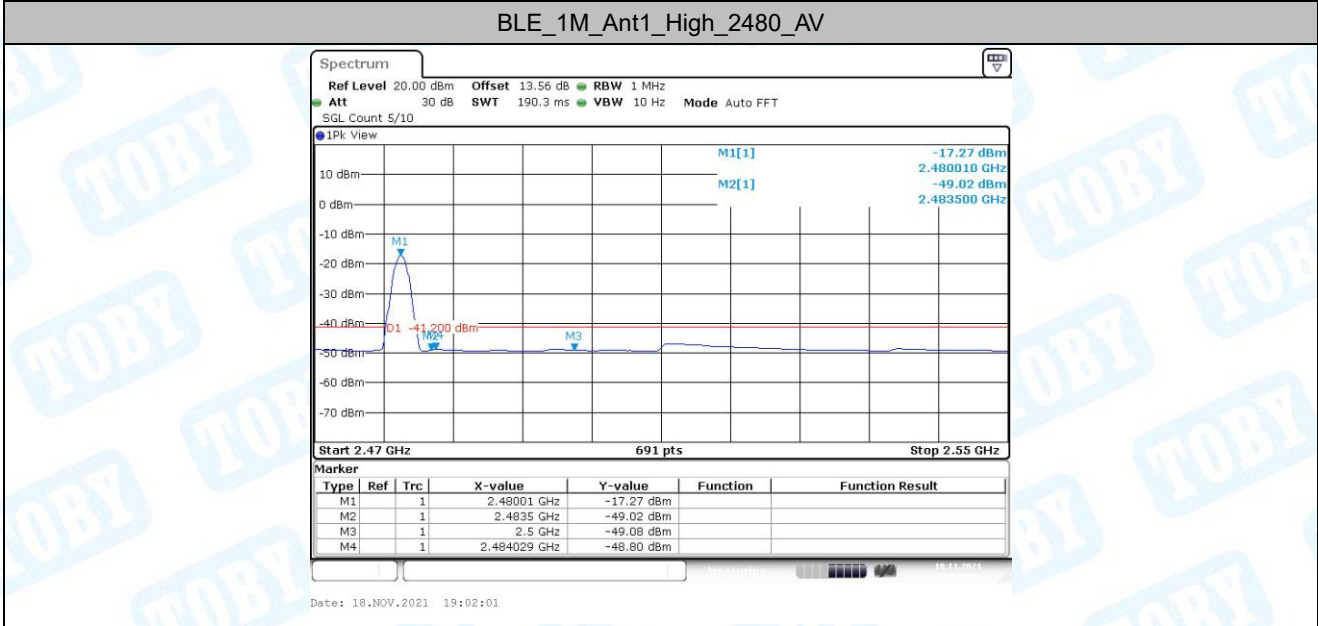
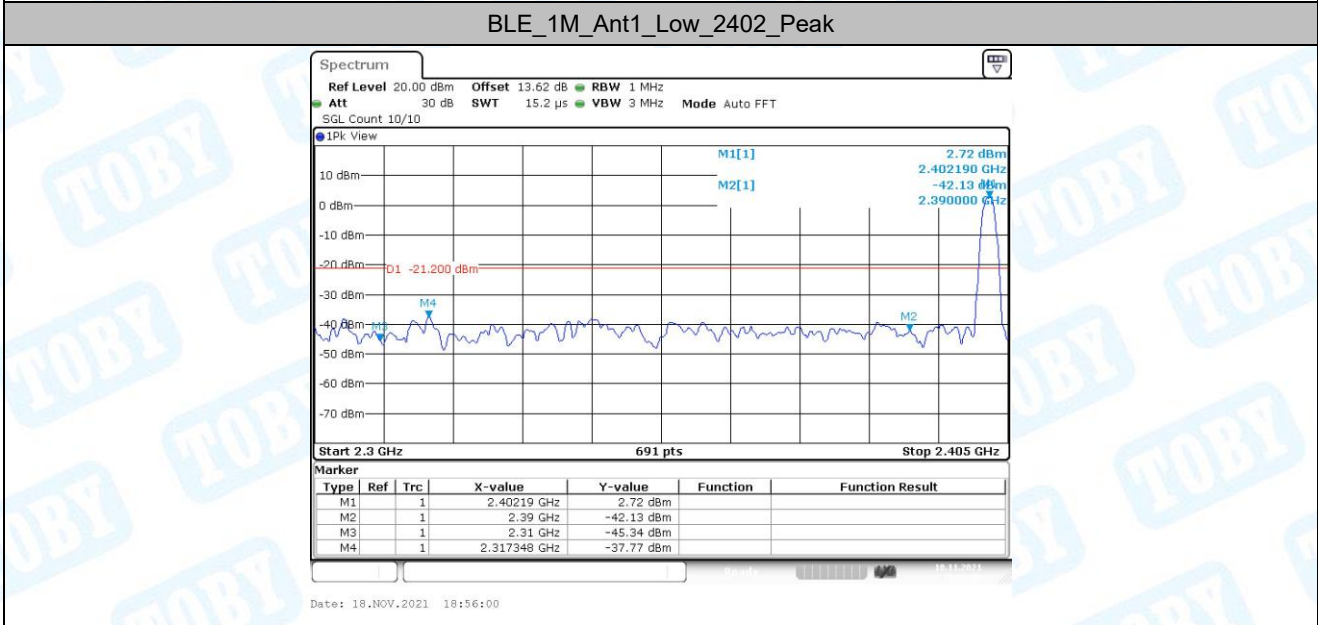
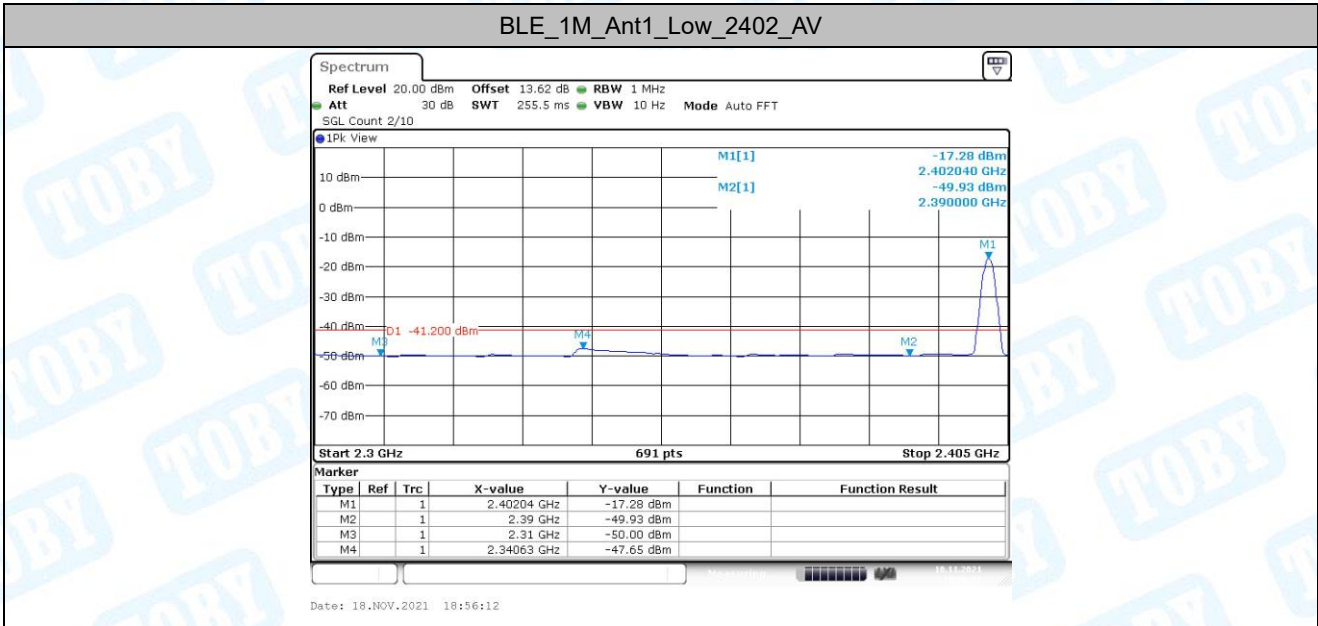
### 8.1. Test Result

Test Mode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-50	≤-41.20	PASS
				AV	2340.630	-47.65	≤-41.20	PASS
				AV	2390.000	-49.93	≤-41.20	PASS
				Peak	2310.000	-45.34	≤-21.20	PASS
				Peak	2317.348	-37.77	≤-21.20	PASS
				Peak	2390.000	-42.13	≤-21.20	PASS
		High	2480	AV	2483.500	-49.02	≤-41.20	PASS
				AV	2484.029	-48.8	≤-41.20	PASS
				AV	2500.000	-49.08	≤-41.20	PASS
				Peak	2483.500	-40.5	≤-21.20	PASS
				Peak	2498.290	-40.09	≤-21.20	PASS
				Peak	2500.000	-42.15	≤-21.20	PASS

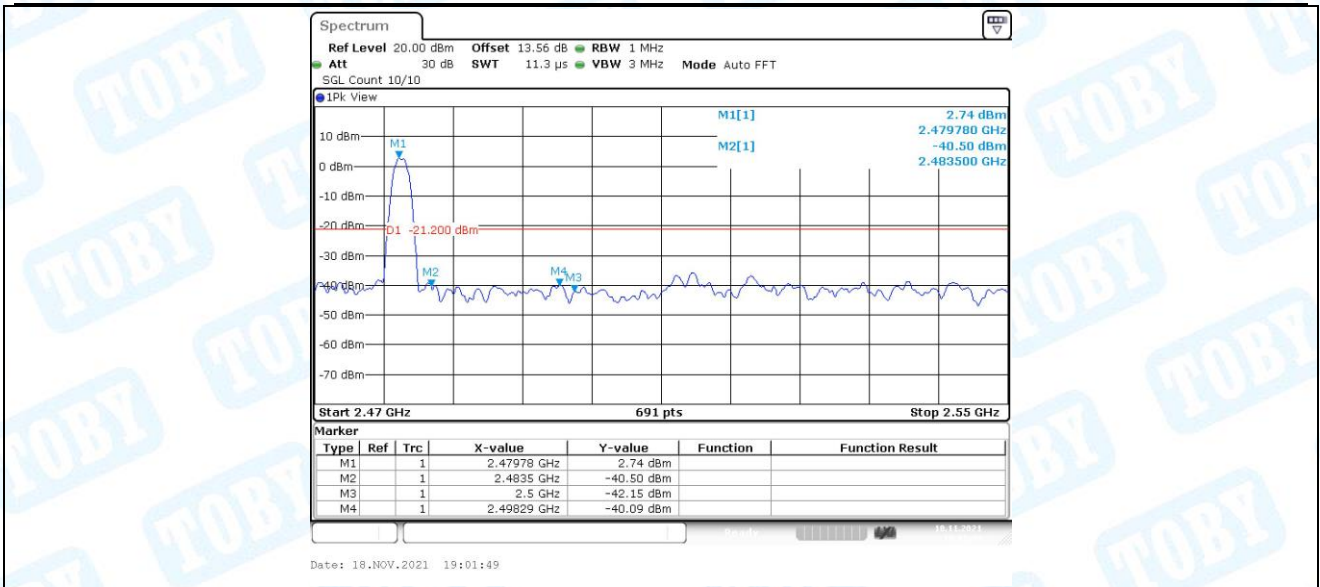
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## 8.2. Test Graphs







-----End of the report-----